

GENERAL STRUCTURAL NOTES

CONCRETE:

- ALL CAST IN PLACE CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI.
- CONCRETE CONSTRUCTION SHALL CONFORM TO THE ACI BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI 318.
- ALL CONCRETE REINFORCING SHALL MEET ASTM SPECIFICATIONS A615, GRADE 60.
- SPLICES IN REBAR ARE TO LAP 30 DIAMETERS UNLESS NOTED OR 12" MINIMUM. LAP ALL CORNER BARS.
- PROVIDE ADEQUATE SUPPORT BARS AND ACCESSORIES TO HOLD ALL REBAR FIRMLY IN PLACE.
- CONCRETE COVER FOR REBAR:

SLABS	AS SHOWN ON PLANS
FOOTINGS	3"
WALLS	1-1/2" INTERIOR 2" EXTERIOR
BEAMS	2"

- SLABS ON GRADE ARE TO BE REINFORCED WITH 6 X 6 - W1.4 X W1.4 WWM.
- OPENINGS IN CONCRETE SHALL BE REINFORCED WITH 2-#6 BARS EACH SIDE, EXTENDING 2'-6", PAST THE FACE OF OPENING UNLESS OTHERWISE NOTED.
- PROVIDE 200' OF #4 REBAR IN 20' LENGTHS TO BE USED AS DIRECTED BY INSPECTOR.

FOUNDATIONS

- FOOTINGS ARE DESIGNED FOR A MAXIMUM SOIL BEARING PRESSURE OF 5000 PSF.
- ALL FOOTINGS SHALL BEAR ON NATURAL UNDISTURBED SOIL. ALL BEARING MATERIAL SHALL BE APPROVED BY THE ENGINEER PRIOR TO PLACING FOOTING CONCRETE.
- PROTECT ALL FOUNDATIONS FROM THE ACTION OF WATER AND FREEZING.

BACKFILLING

- PLACE ALL BACKFILL ACCORDING TO PROJECT SPECIFICATIONS. BRACE ALL WALLS AS REQUIRED PRIOR TO AND DURING THE PLACING OF BACKFILL AND UNTIL THE SUPPORTS FOR THE WALLS ARE IN PLACE.
- WALLS ARE NOT TO BE BACKFILLED UNTIL FLOOR SLABS ARE INSTALLED TO PROVIDE LATERAL SUPPORT.

PRECAST-PRESTRESSED CONCRETE:

- ALL PRECAST-PRESTRESSED PLANK, SHALL BE DESIGNED BY SUPPLIER FOR SUPERIMPOSED LOADS NOTED ON PLANS, AND SHALL BE MANUFACTURED AND ERECTED IN ACCORDANCE WITH PROJECT SPECIFICATIONS.

MISCELLANEOUS

- DESIGN LOADS ALL DEAD LOADS PLUS INDICATED LIVE LOADS

SLAB AT ELEV. 1614.5	300 PSF LIVE LOAD
SLAB AT ELEV. 1626.33	300 PSF LIVE LOAD
SLAB AT ELEV. 1641.0	200 PSF LIVE LOAD
ROOF LIVE LOAD	30 PSF
- SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ALL OPENINGS AND INSERTS NOT SHOWN ON THE STRUCTURAL DRAWINGS. ALL OPENINGS AND INSERTS SHALL BE PLACED PRIOR TO CASTING CONCRETE.

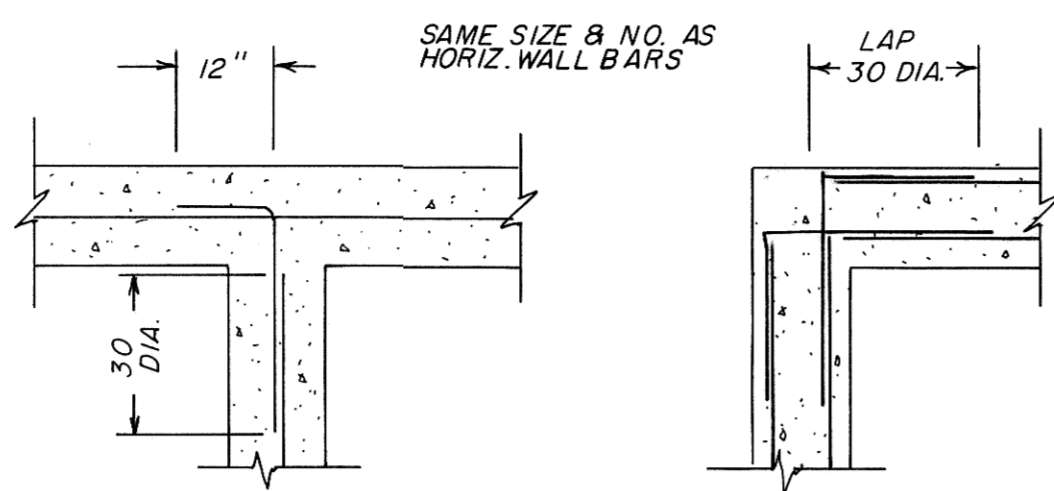
NOTES:

- ◊ INDICATES INSTALL 5" PVC WATERSTOP
- INDICATES ELEVATION
- ALL EXPOSED CORNERS TO BE BEVELED WITH 3/4" TRIANGULAR MOLDING.
- INSTALL PVC WATERSTOP IN ALL CONSTRUCTION JOINTS BELOW ELEVATION 1640.

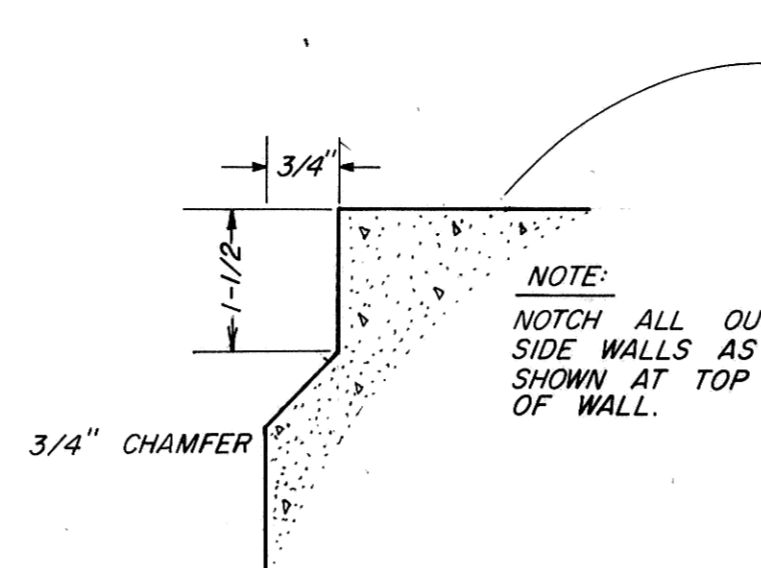
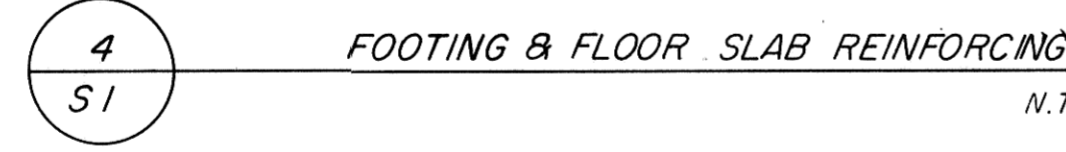
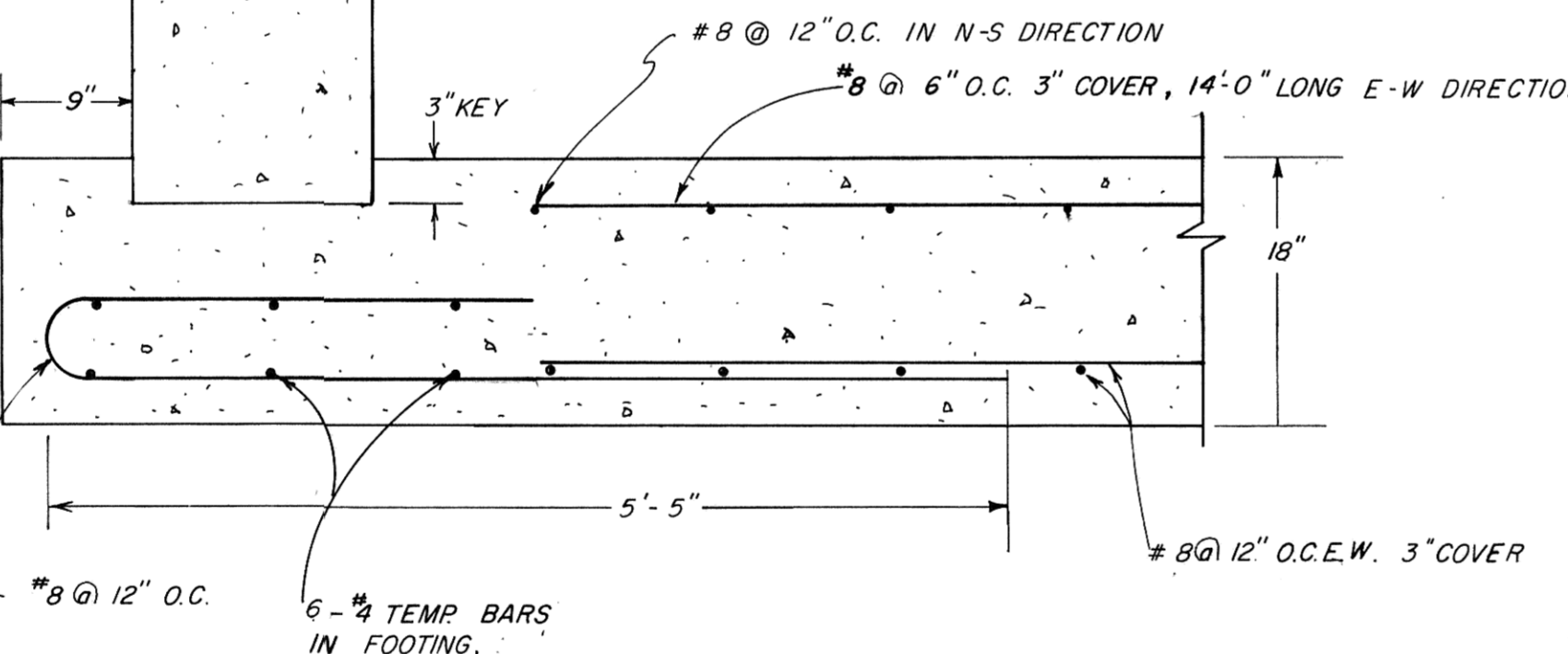
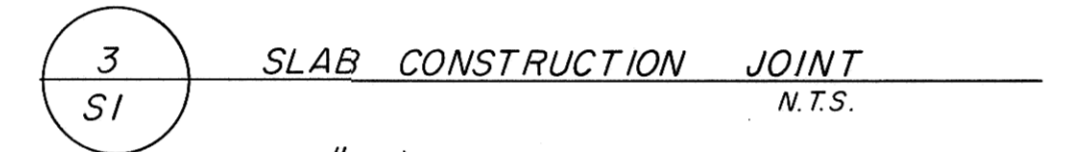
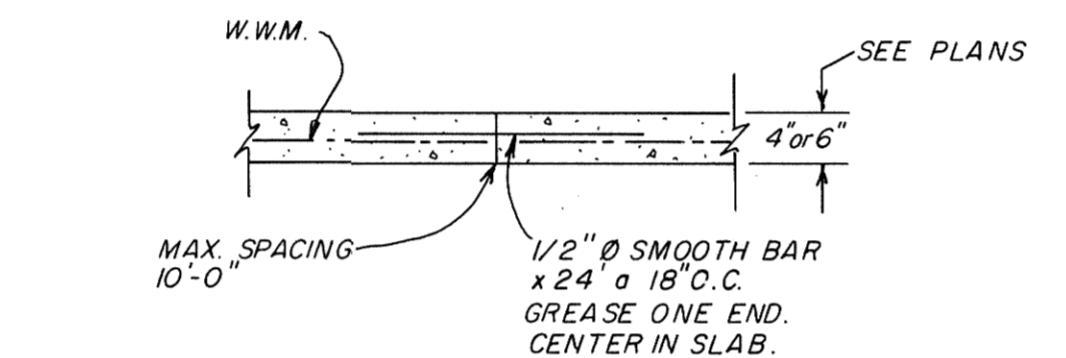
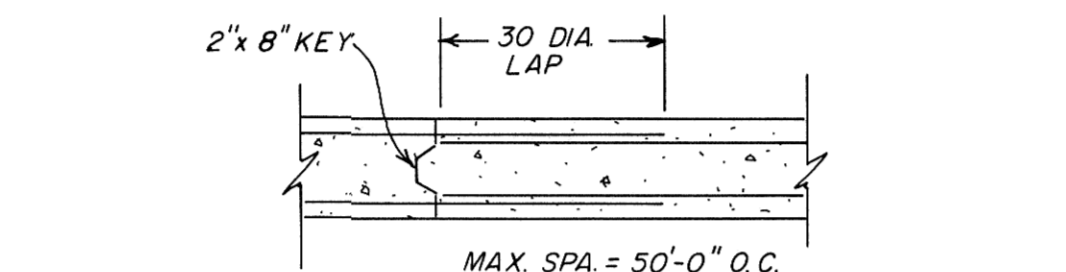
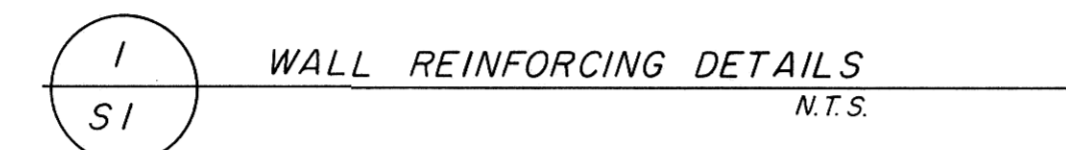
STRUCTURAL STEEL

- STRUCTURAL STEEL WORK TO BE PER AISC SPECIFICATION. MATERIAL A36.
- LINTELS SHALL HAVE A BEARING OF 1" PER FOOT OF SPAN EACH END, 6" MINIMUM. LINTEL ANGLES WHICH HAVE NOT BEEN SHOWN OTHERWISE TO BE AS FOLLOWS FOR EACH 4" OF WALL THICKNESS:

SPANS TO 4'-0"	3 1/2" x 3 1/2" x 1/2" ANGLE
4'-0" TO 6'-0"	4" x 3 1/2" x 1/2" ANGLE



INTERSECTING WALL CORNER DETAIL



EDGE DETAIL

NOTE: NOTCH ALL OUTSIDE WALLS AS SHOWN AT TOP OF WALL.

ADDITIONAL 4#8 BARS (TYP. ALL SIDES)

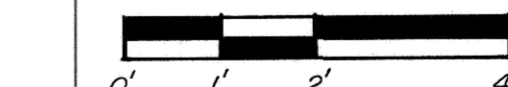
6 WALL SECTION TYP. EAST & WEST WALLS

7 WALL SECTION TYP. NORTH & SOUTH WALLS

PHASE III

REV.	DATE	DESCRIPTION	BY

MANDAN INTERCEPTOR 1984		MANDAN, NORTH DAKOTA	
MASTER PUMPING STATION			
WALL SECTIONS & STRUCTURAL DETAILS			
ULTEIG ENGINEERS, INC. CONSULTING ENGINEERS & ARCHITECT FARGO • BISMARCK • MINNEAPOLIS			
DRAWN BY: D.J.M.	SCALE: AS SHOWN	PROJECT NO. 4241	
CHECKED BY: S.D.	DATE: MAY 1984	SHEET 51 of	
APPROVED BY: R.R.			



Record Drawing

